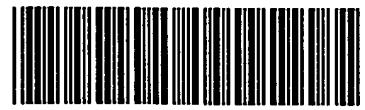


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/532,405
Source: PUT/10
Date Processed by STIC: 5/3/05

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PCT

RAW SEQUENCE LISTING

DATE: 05/03/2005

PATENT APPLICATION: US/10/532,405

TIME: 12:03:20

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 Output Set: N:\CRF4\05032005\J532405.raw

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 5 <120> TITLE OF INVENTION: CDKL1 AS MODIFIER OF BRANCHING MORPHOGENESIS AND METHODS OF
 USE
 7 <130> FILE REFERENCE: EX03-077C-US
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/532,405
 C--> 9 <141> CURRENT FILING DATE: 2005-04-22
 9 <150> PRIOR APPLICATION NUMBER: US 60/420,554
 10 <151> PRIOR FILING DATE: 2002-10-23
 12 <160> NUMBER OF SEQ ID NOS: 4
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
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 18 <212> TYPE: DNA
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 26 ggc当地caag aagtcttctgg aatcagaaga tgaccctgtc ataaagaaaa ttgc当地tgc当地 180
 28 ggaaatccga atgctcaagc aactcaagca tcccaacctt gttaacctcc ttgaagtctt 240
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 32 gttggacaga taccaaagag gggtaaccaga acatctcgta aagagcataa cttggcagac 360
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 46 ca当地aatcag tactcgtg gaggaaaat tccagaccct gaagatatgg aaccacttga 780
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PATENT APPLICATION: US/10/532,405 **TIME:** 12:03:20

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Output Set: N:\CRF4\05032005\J532405.raw

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| 81 actgcaagct | gtaaattttt | gccataaaca | caattgcata | catagagacg | tgaagccaga | 420 |
| 83 aaatatcctc | atcacgaaac | attccgtat | taagcttgc | gactttggat | ttgctcggt | 480 |
| 85 tttgactgga | ccgagtact | actatacaga | ctacgtgg | accaggtgg | accgctcccc | 540 |
| 87 tgagctgctg | gtggggaca | cgcagtgac | ccccccgg | gatgttgg | caattggctg | 600 |
| 89 tgtcttgct | gagctgtgt | caggagtgc | tctgtggcca | gaaaaatcgg | atgtggatca | 660 |
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| 97 ggaccctact | caaaggctga | catgtgaaca | gctgtgcat | caccatatt | ttgaaaacat | 900 |
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| 120 tcctccaacc | agacttacgc | acacaagtct | cagtctgaaa | gagagcagca | caaggaagta | 180 |
| 122 cgtgtgtcc | tgaaccattt | ttctggctg | gatgttggag | aggagtctgg | cctttgtgg | 240 |
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| 134 atccatttta | agaagattt | tccctctat | atggagaat | atgaaaaat | tggaaaatt | 600 |
| 136 ggagaaggat | cctatggagt | tgttttcaaa | tgttagaaaca | gggacacgg | tcagattgt | 660 |
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| 140 gaaatccgaa | tgctcaaggc | cccaagcccc | tatgtctgt | aaccttctct | ctgtggat | 780 |
| 142 aaaatggtaa | gaagaggaaa | gaaagaattt | ctgcgcag | tggcagaaaa | atgatgtct | 840 |
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| 148 tatgtggca | ttttgttctg | gatttactat | tttgaccagg | tttgttgc | caggaggaa | 1020 |
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| 152 catagaacca | atgtgaggcc | ttacatttt | ctactatcac | ggcccagccc | cttcaagacg | 1140 |
| 154 gctgtgttgc | cctatggggc | aggcttgc | attcttgat | gcagtttattt | cctcgcagag | 1200 |
| 156 caagaacctt | attgcctac | tcaggact | caacaacctc | atcctattat | aggccgtgg | 1260 |
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| 164 accccactt | tcatcagc | ttgggtcc | gttgc | atcctat | tgatccagtt | 1500 |
| 166 ccagaattcc | attcttgcagg | cctgtatgt | aaggccactt | caggaatgtc | tggatccct | 1560 |
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/532,405

DATE: 05/03/2005
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| 174 | gaacaaagct | tccacagtgt | aatggtgcc | caggctagac | ataaaagggttc | tccaaagtccc | 1800 | | | | | | | | | | |
| 176 | caccagactc | aggagcccaag | ctggcctcac | ccagtggatc | ccacaccagg | ccacaggtgg | 1860 | | | | | | | | | | |
| 178 | agctgcctgc | cagtccccatg | ccgtgcgc | gcactcctca | gtccttggtt | ggtcgatggg | 1920 | | | | | | | | | | |
| 180 | accgggtgt | gcggagcagg | gggcgggttct | gatcgtggag | gctcggccgc | gcaggagccc | 1980 | | | | | | | | | | |
| 182 | acgcaactca | agcatcccaa | cctgttaac | ctcctggaa | tcttcaggag | gaaacggagg | 2040 | | | | | | | | | | |
| 184 | cttcacactgg | tgttgaaata | ttgtgaccac | acagttctcc | atgagtttga | cagataccaa | 2100 | | | | | | | | | | |
| 186 | agaggcatat | gcaacatctt | tgtgtcaact | ggaagaagac | ttggtgagca | cacagaggcc | 2160 | | | | | | | | | | |
| 188 | ttgtccaaga | aaaagaaaaa | aggaggaggg | ggtccttcc | tgaagttgag | ggcagcctct | 2220 | | | | | | | | | | |
| 190 | tcgaggatca | ccctgttaa | aatgttggc | tgtgggctgg | aaaccacagg | tgatttgagt | 2280 | | | | | | | | | | |
| 192 | ctaaattctg | gagggggggc | cgcacatctca | gggggtggctg | cagctctcag | agacacttgtg | 2340 | | | | | | | | | | |
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| 198 | cggctttga | ctggaccggag | tgactactat | acagactacg | tggctaccag | gtgttaccgc | 2520 | | | | | | | | | | |
| 200 | tcccctgagc | tgctgggtgg | ggacacgcag | tacggcccc | cgggtggatgt | ttgggcaatt | 2580 | | | | | | | | | | |
| 202 | ggctgtgtct | ttgctgagct | gctgtcagga | gtgcctctgt | ggccagggaaa | atcggatgtg | 2640 | | | | | | | | | | |
| 204 | gatcagctgt | atctgattag | gaagaccttg | ggggatctca | ttccttaggca | ccagcaagtg | 2700 | | | | | | | | | | |
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| 225 | 1 | | | | 5 | | | | 10 | | | | | 15 | | | |
| 228 | Gly | Val | Val | Phe | Lys | Cys | Arg | Asn | Arg | Asp | Thr | Gly | Gln | Ile | Val | Ala | |
| 229 | | | | | | 20 | | | 25 | | | | | 30 | | | |
| 232 | Ile | Lys | Lys | Phe | Leu | Glu | Ser | Glu | Asp | Asp | Pro | Val | Ile | Lys | Lys | Ile | |
| 233 | | | | | | 35 | | | 40 | | | | | 45 | | | |
| 236 | Ala | Leu | Arg | Glu | Ile | Arg | Met | Leu | Lys | Gln | Leu | Lys | His | Pro | Asn | Leu | |
| 237 | | | | | | 50 | | | 55 | | | | | 60 | | | |
| 240 | Val | Asn | Leu | Leu | Glu | Val | Phe | Arg | Arg | Lys | Arg | Arg | Leu | His | Leu | Val | |
| 241 | | | | | | 65 | | | 70 | | | | | 75 | | | 80 |
| 244 | Phe | Glu | Tyr | Cys | Asp | His | Thr | Val | Leu | His | Glu | Leu | Asp | Arg | Tyr | Gln | |
| 245 | | | | | | 85 | | | 90 | | | | | 95 | | | |
| 248 | Arg | Gly | Val | Pro | Glu | His | Leu | Val | Lys | Ser | Ile | Thr | Trp | Gln | Thr | Leu | |
| 249 | | | | | | 100 | | | 105 | | | | | 110 | | | |
| 252 | Gln | Ala | Val | Asn | Phe | Cys | His | Lys | His | Asn | Cys | Ile | His | Arg | Asp | Val | |
| 253 | | | | | | 115 | | | 120 | | | | | 125 | | | |
| 256 | Lys | Pro | Glu | Asn | Ile | Leu | Ile | Thr | Lys | His | Ser | Val | Ile | Lys | Leu | Cys | |
| 257 | | | | | | 130 | | | 135 | | | | | 140 | | | |
| 260 | Asp | Phe | Gly | Phe | Ala | Arg | Leu | Leu | Thr | Gly | Pro | Ser | Asp | Tyr | Tyr | Thr | |
| 261 | | | | | | 145 | | | 150 | | | | | 155 | | | 160 |
| 264 | Asp | Tyr | Val | Ala | Thr | Arg | Trp | Tyr | Arg | Ser | Pro | Glu | Leu | Leu | Val | Gly | |
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/532,405

DATE: 05/03/2005
TIME: 12:03:20

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272 Phe Ala Glu Leu Leu Ser Gly Val Pro Leu Trp Pro Gly Lys Ser Asp
273 195 200 205
276 Val Asp Gln Leu Tyr Leu Ile Arg Lys Thr Leu Gly Asp Leu Ile Pro
277 210 215 220
280 Arg His Gln Gln Val Phe Ser Thr Asn Gln Tyr Phe Ser Gly Val Lys
281 225 230 235 240
284 Ile Pro Asp Pro Glu Asp Met Glu Pro Leu Glu Leu Lys Phe Pro Asn
285 245 250 255
288 Ile Ser Tyr Pro Ala Leu Gly Leu Leu Lys Gly Cys Leu His Met Asp
289 260 265 270
292 Pro Thr Glu Arg Leu Thr Cys Glu Gln Leu Leu His His Pro Tyr Phe
293 275 280 285
296 Glu Asn Ile Arg Glu Ile Glu Asp Leu Ala Lys Glu His Asp Lys Pro
297 290 295 300
300 Thr Arg Lys Thr Leu Arg Lys Ser Arg Lys His His Cys Phe Thr Glu
301 305 310 315 320
304 Thr Ser Lys Leu Gln Tyr Leu Pro Gln Leu Thr Gly Ser Ser Ile Leu
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309 340 345 350
312 Tyr Arg Phe Pro Asn Ile
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/532,405

DATE: 05/03/2005

TIME: 12:03:21

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L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date